

## **ABSTRACT**

A catalytic converter device for cleansing exhaust gas emitted from an internal combustion engine is disclosed. The catalytic converter device includes an elongated body having a longitudinal axis. An inlet area is located at one end of the elongated body, wherein the exhaust gas enters the elongated body in the inlet area. A sleeve extends from the inlet area. The sleeve has a catalytic material formed thereon. The sleeve has an active surface for reacting with the exhaust gas, wherein the size of the active surface increases as a distance from the inlet area increases. The sleeve includes a plurality of openings formed therein and at least one depression.